AUTHOR INDEX VOLUME 22

Adam, Dieter, 353 Adelman, Lee A., 442 Adelman, Martin, 800 Ahonkhai, Vincent I., 715 Alborn, W. E., Jr., 824 Alexander, Gary A., 162 Allen, N. E., 824 Alliegro, George M., 652 Altés, A. Gutiérrez, 1064 Andrews, J. M., 969 Anton, P. A., 312 Arena, Adriana, 1067 Assael, Baroukh M., 1017 Atherton, Frank R., 571 Auckenthaler, R., 448 Avila, José L., 380 Ayers, Leona W., 859 Azimi, Parvin H., 923

Bächi, Brigitte, 323 Bagwell, Charles B., 431 Bakker-Woudenberg, Irma A. J. M., 1042 Bal'a, Farid, 1087 Ballard, Ronald C., 598, 686 Baliy, Rene, 678 Bansal, Madhu B., 350 Barry, Arthur L., 859 Barton, L. J., 218 Barza, Michael, 832 Batzinger, R. P., 707 Bawdon, Roger E., 999 Beale, Angela S., 369 Beaudet, R., 277 Beneke, Everett S., 810 Bennett, John E., 482 Bennett, William M., 508 Benziger, David P., 475 Berenguer, José, 1070 Berens, Randolph L., 657 Bernacki, Ralph J., 1008 Bettin, Kristine M., 336 Beville, Rose, 10 Bilgeri, Yvonne R., 686, 689 Birk, R. J., 628 Bisaillon, J. G., 277 Black, Henry R., 94, 704 Blair, Donald C., 376 Böck, August, 231 Bodey, Gerald P., 43, 513 Boelaert, Johan, 535 Bohnhoff, Marjorie, 926 Bond, Melanie, 515 Bonina, Letterio, 1067 Bonner, Daniel P., 172 Bonner, Mary C., 901 Boon, Ronald J., 369

Booth, S. James, 701

Borner, Klaus, 949 Boujnah, A., 1084 Boyce, John M., 901 Bradsher, Robert W., 36 Brier, Gordon L., 94 Brisson, Cynthia J., 1022 Britten, John, 193 Brodeur, James P., 652 Bueding, E., 707 Bush, Karen, 414 Butler, Thomas, 312 Buys, L. F. M., 593

Calderwood, Stephen B., 266 Canawati, Hanna N., 906 Canonico, Peter G., 696 Caplan, Ellis, 193 Casal, Julio, 222 Casanova, María A., 380 Casero, Robert A., Jr., 1008 Caufield, Page W., 115 Cavanna, Graziella, 1017 Chabbert, Yves A., 942 Chakravorty, Maharani, 541 Chance, Deborah, 499 Cheriyan, Ukken O., 1026 Cherubin, Charles E., 715 Childs, George E., 981 Chrane, Dale, 622 Chrane, Dale F., 990 Chung, Menger, 1017 Citron, Diane M., 226 Clark, James E., 709 Clark, Stephen J., 493 Clausen, Carla, 442 Clewell, Don B., 204 Cobbs, C. Glenn, 1 Colón-Whitt, Alba, 1051 Comber, Keith R., 369 Conrad, Robert S., 1012 Cowlishaw, Anthony, 198 Crawford, Sharon A., 162 Crokaert, F., 346 Crosby, Mark A., 398 Crossley, K., 648 Crossley, Kent, 391 Cullinane, Joanne C., 791 Cullmann, Wolfgang, 302 Cynamon, Michael H., 1079

Daly, Richard C., 461 Dámaso, Diego, 255 Danders, W., 785 Dankert, Jacob, 1073 Daschner, F. D., 958 Davidson, David E., Jr., 981 de Clercq, Erik, 421 DeFehr, Joan, 508 Defever, Keith S., 810 deJongh, Carlos A., 193 Del Rio, Maria, 622 del Rio, Maria de los A., 990 de Pedro, Miguel A., 1070 DeSante, Karl A., 94 De Schepper, P. J., 237 Devaud, Marlyse, 323 de Visser, Iris, 353 DeYoung, Donald R., 148 Dhawan, Vinod K., 350 Diven, Warren, 839 Diven, Warren F., 1076 Doehring, Richard O., 137 Dorman, C. J., 912 Dornbusch, Kathrine, 743 Dougherty, Edward M., 527 Dowling, John N., 272 Doyle, Ronald J., 83 Dubes, George R., 701 Ducey, Kevin, 201 Dudek, Edward J., 926 Duggan, David O., 376 Dulworth, Jacqueline K., 635 Duncan, Margaret O., 686 Dunphy, Mary G., 923 Durack, D. T., 448 Dyas, A., 969

Eckfeldt, John H., 878 Edelson, Jerome, 475 Edelstein, Paul H., 90 Eley, Adrian, 198 Eliopoulos, George M., 295 Elliott, Ann M., 1 Elliott, Greg R., 781 Elliott, W. Clayton, 508 Elvers, Anke, 949 Elwell, Lynn P., 882 Enciso, M. Díez, 1064 Eng, Robert H. K., 522 Ernest, Karen D., 154 Evans, Evan, 800 Evans, Martin E., 334

Fainstein, Victor, 513
Fasching, Claudine E., 336
Fass, Robert J., 28, 165
Feingold, David S., 470
Ferreira, Maria C., 832
Field, Hugh J., 719
Finegold, Sydney M., 226, 338
Finley, Rebecca S., 193
Fitzgerald, Robert H., Jr., 461
Fling, Mary E., 882
Flynn, Kerrie, 47

Follath, Ferenc, 954
Fontijne, Peter, 364, 386
Fort, Raymond C., 1031
Fortner, Clarence L., 193
Foster, T. J., 912
Foulstone, Mark, 753
Fox, Lawrence M., 431
Freiberg, Mark R., 781
Freudenberger, Joan S., 414
Fuchs, Peter C., 859
Fujiu, Morio, 617
Fukuoka, Y., 728

Galloway, Karen S., 55, 1026 Garcia-Rodriguez, J. A., 893 Garcia-Sanchez, J. E., 893 Gardella, Amelie, 266 Gavan, Thomas L., 859 Genta, Valerio M., 151 Gentry, Layne O., 32 Georgopapadakou, Nafsika H., 172 Geraci, J. E., 448 Geraci, Joseph E., 972 Gerding, Dale N., 336, 844, 878 Gerlach, E. Hugh, 859 Gershon, Herman, 805 Gezelius, Lena, 743 Giger, Donald K., 1037 Gilbert, David N., 508 Gilbertson, John R., 805 Gilleland, H. E., Jr., 1012 Gillin, Frances D., 342 Glatzer, Lou, 204 Gnann, John W., Jr., 1 Goering, Richard V., 1037 Goessens, Wil H. F., 364 Goetter, William E., 1 Goldmann, Donald A., 47 Goodbody, M. M., 218 Gorbach, Sherwood L., 771 Grant, Robert B., 142 Greenwood, David, 198 Greer, Sheldon B., 431 Gump, Dieter W., 398 Guss, Stephen P., 999 Gutmann, Laurent, 128 Gwaltney, Jack M., Jr., 639

Haas, Dieter, 242 Hadley, W. Keith, 711 Hajdu, Richard, 62 Hall, Michael J., 571 Hallander, Hans O., 743 Haller, I., 165 Hampel, Barbara, 1061 Hansbrough, John F., 709 Harding, G. K. M., 895 Harding, Stuart M., 995 Harrington, Joyce E., 71 Hasegawa, Toru, 735 Hassall, Cedric H., 571 Hayden, Frederick G., 639 Hebertson, Richard, 643 Heessen, Frans W. A., 520 Hegarty, A., 969 Hemmann, Renate, 954 Hemmer, K. A., 958 Hemsell, David L., 999 Hennessy, J. N., 218 Henning, Claes, 1058 Herrick, Melanie, 151 Himuro, Shozo, 250 Hiruma, Ryoichi, 585 Hobbs, J. N., Jr., 824 Hodges, Brenda, 995 Hodges, Glenn R., 909 Hof, Herbert, 332 Hohenfeldt, Paul R., 698 Hoidal, John R., 781 Holloway, Yvette, 1073 Holmes, Barbara, 10 Homberger, Françoise, 15 Hooper, David C., 662 Horchani, A., 1084 Houghton, Donald C., 508 Huggins, John W., 696 Humphries, Nicola L. M., 170

Inami, Akiko, 585 Ingram, Robert L., 1031 Inoue, Matsuhisa, 181, 548, 564, 579, 693, 721 Iravani, Abdollah, 672 Ishitsuka, Hideo, 611, 617 Israel, Karen S., 94 Iyobe, Shizuko, 358 Izumiya, N., 785

Jackson, George G., 1004 Jacobs, M. R., 312 Jacobs, Michael R., 897 Jacobson, Jav A., 643 Jacobson, Karin, 743 Jacobus, Nilda V., 771, 832 Jacoby, George A., 266, 525 Jaffe, Aline, 942 Jansson, Lorita, 1058 Jenkins, Stephen G., 628 Johnson, Catherine E., 406 Johnson, Jonas, 1076 Jolliffe, Linda K., 83 Jones, Ronald N., 859, 985 Jorgensen, James H., 162 Joshi, Arati, 541 Jules, Kety, 453

Kager, Lars, 208
Kahan, Frederick M., 62
Kamimura, Toshiaki, 560
Kaneko, Midori, 585
Kantarjian, Hagop, 1087
Karlsson, Inga, 743
Karran, Stephen J., 170
Kasworm, Evelyn, 643
Kato, Masuhiro, 721
Kato, T., 785
Kato, Takako, 358

Katsu, Kanemasa, 181 Kawana, Nobuko, 585 Kayser, F. H., 323 Kayser, Fritz H., 15 Kelly, Frances, 897 Kemp, J. A., 312 Kennell, Wiebke L., 55 Kikuchi, Y., 935 Kim, H., 848 Kirst, H. A., 824 Kitoh, Kyosuke, 181 Klastersky, J., 330, 604 Klayman, Daniel L., 981 Kleinkauf, H., 785 Knight, Vernon, 108 Kobayashi, Fujio, 564 Kobayashi, Yoriko, 775 Koeppe, Peter, 353, 1061 Komiya, M., 935 Konthikamee, Wattana, 805 Koornhof, Hendrik J., 137, 598, Korhonen, Timo K., 120 Kos, William L., 698 Kosui, N., 785 Koup, Jeffrey R., 442 Koyama, M., 935 Krause, M., 785 Krogstad, Donald J., 917 Kropp, Helmut, 62 Kumano, K., 728 Kuroda, Kyoichi, 308 Kwan, C., 395

Laatsch, Linda J., 698 Labthavikul, Pornpen, 23, 316 Lagast, H., 330, 604 Lambert, Annemie, 535 Lambert, Robert W., 571 Lambros, Chris, 981 Landesman, Sheldon, 522 Langkamp, Herman, 805 Larson, Tom N., 878 Lea, A. Scott, 32 LeFrock, Jack L., 930 Lerner, Stephen A., 78, 926 Levandowski, Roland A., 1004 Levin, Robert M., 923 Levine, Hillel B., 43 Levine, Jerome F., 103 Levy, Jack, 442 Levy, Stuart B., 791 Liebowitz, Lynne D., 598 Liljeqvist, Lars, 208 Lin, C., 848 Lindemann, M. L. Mateos, 1064 Lloyd, William J., 571 Lockwood, W. R., 901 Lode, Hartmut, 949, 1061 Lorian, V., 1084 Lossick, Joseph G., 409 Louis, Claude, 678 Lounatmaa, Kari, 120 Lower, Richard R., 201 Lutz, Brobson, 10

Madoff, Sarabelle, 678 Magnussen, C. Richard, 154 Maksymiuk, Andrew W., 43 Malmborg, Anna-Stina, 208 Marahiel, M. A., 785 Marks, M. I., 140 Marks, Melvin I., 145 Marmouset, Marie-Claire, 678 Marr, J. Joseph, 657 Marrie, T. J., 395 Maslow, Melanie J., 103 Mastroeni, Pasquale, 1067 Matsen, John M., 488, 493 Matsui, Hidefumi, 213 Matsumoto, Joseph Y., 972 Matsuura, Yoshiharu, 548, 579 Mauff, Alfred C., 686 McCarron, David A., 508 McCarthy, Laurence R., 151 McCracken, George H., Jr., 622, 990 McHugh, Gail L., 662 McKinlay, Mark A., 1022 McMurry, Laura M., 791 McNamara, Bernard T., 226 Mead, Karen, 391 Mee. Brian J., 889 Mekras, John A., 431 Mendelman, Paul M., 531 Mercado, Teresa I., 1051 Merendino, Rosalba, 1067 Meunier-Carpentier, F., 604 Meyer, Richard D., 90 Michel, Marc F., 364, 386, 1042 Mikami, H., 728 Mikami, Hidetada, 693 Miralles, Joseph V., 1022 Mitsuhashi, S., 728 Mitsuhashi, Susumu, 181, 358, 548, 564, 579, 693, 721 Moellering, Robert C., Jr., 266, 295 Mogabgab, William, 10 Molineaux, C. J., 707 Moody, Frank G., 488 Morenzoni, Giovanna, 15 Morlock, C., 648 Muder, Robert R., 1076 Müller, Klaus-Michael, 332 Mullie, A., 237 Mulligan, Maury E., 226 Muytjens, Harry L., 520

Nahmias, André J., 499 Nakae, Ryoko, 554 Nakae, Taiji, 554, 775 Nakagawa, K., 935 Nakahara, Hideomi, 852 Nelson, Donald J., 657 Nelson, John D., 622, 990 Neu, Harold C., 23, 316, 453, 518, 560 Newman, Kathryn A., 193 Nicolle, L. E., 895 Ninomiya, Yasuyuki T., 617 Nord, Carl-Erik, 208 Notsch, John D., 981

Odds, F. C., 763 Oden, E., 848 Offermann, P., 958 Ogashiwa, Mieko, 693 Ogawa, Hidemasa, 548 Ogilvie, Kelvin K., 55, 1026 Ohiwa, Toshio, 611 Ohkawa, Mitsuo, 308 Ohm-Smith, Marilyn J., 711 Ohnishi, Haruo, 250 Ohsawa, Chieko, 611, 617 Okasho, Akira, 308 O'Keefe, J. Paul, 426 Okuda, Takao, 213 Ong, Catherine, 852 Opferkuch, Wolfgang, 302 Opheim, Kent E., 442 Orzalesi, Giovanni, 1067 Osada, Yasuaki, 548 Osseiran, Maher, 1087

Pachucki, Constance T., 1004 Packer, Richard R., 985 Pai, C. H., 140 Palmer, Gregory S., 1079 Pancic, Francis, 1022 Pankey, George A., 51 Pannier, Wallace L., 696 Parravicini, Luigi, 1017 Parris, Deborah S., 71 Pasculle, A. William, 272 Pasiecznik, Karen A., 90 Patel, Indravadan H., 816 Patterson, Lyndell S., 334 Peavy, Duane L., 108 Penn, Robert G., 1037 Penn, Robert L., 289 Penner, J. L., 218 Pennington, James E., 406 Perlin, Michael H., 78 Peters, Jeanne, 499 Petersen, Bruce H., 704 Peterson, Lance R., 336, 844, 878 Peterson, Phillip K., 781 Pfaller, Michael A., 917 Philippon, Alain M., 266 Piendl, Wolfgang, 231 Pieper, Rolf, 208 Pierce, Carol V., 369 Polak, Annemarie, 482 Polk, Ronald E., 201 Pollock, Alan A., 103, 816 Pollock, Bee, 10 Porter, Carl W., 1008 Porter, Forbes D., 852 Powers, Celeste N., 108 Powers, Robert D., 639 Preheim, Laurel C., 1037 Preston, M. A., 218 Prieto, J., 893 Prince, Alice S., 525 Prusoff, William H., 176, 284 Pyckavet, Monique, 535

Quie, Paul G., 781

Radatus, Bruno K., 55 Radwanski, Elaine, 1017 Rahal, James J., Jr., 103, 816 Rashtchian, Ayoub, 701 Reading, Christopher, 753 Reddy, B. S., 707 Redjeb, S. Ben, 1084 Reichelderfer, Charles F., 527 Reiner, David S., 342 Rella, Manuela, 242 Richard, George A., 672 Rienehart, Kenneth L., 696 Rikkers, Layton F., 488 Riley, Thomas V., 889 Ringrose, Peter S., 571 Roberts, Glenn D., 148 Roberts, Marilyn C., 531 Robinson, Roy G., 137 Rodríguez-Tebar, Alfredo, 255 Rogers, Alvin L., 810 Rojo, Fernando, 255 Rolfe, Rial D., 338 Rolston, Kenneth V. I., 930 Romagnoli, Mario F., 47 Rose, Fred, 151 Rosenthal, Ken S., 1031 Rotschafer, J. C., 648 Rotschafer, John C., 391 Rubenis, Mary, 1004 Russo, John, Jr., 488 Russo, Mary E., 488 Ryan, D. Michael, 995

Saheb, S. A., 277 Saikawa, I., 728 Saino, Yushi, 564, 693 Salari, Hamid, 145 Salit, Irving E., 515 Sammartino, Maria T., 154 Sanchez de S. Lorenzo, A., 893 Sande, Merle A., 652 Sanders, Christine C., 1037 Sapico, Francisco L., 906 Sato, Kenichi, 548, 579 Sato, Yoshiko, 358 Sawai, Tetsuo, 585 Sawchuck, Ronald J., 391 Saxon, Barbara A., 488, 493 Schaberg, Dennis R., 204 Scheld, W. Michael, 652 Schell, Ronald F., 930 Schenk, Worthington G., Jr., 262 Schentag, Jerome J., 262, 800 Schimpff, Stephen C., 193 Schinazi, Raymond F., 499 Schmitt-Slomska, Janine, 678 Scholer, Hans J., 482 Schrire, Leonard, 137 Schroeder, Edward T., 376 Scovill, John P., 981 Scribner, R. K., 140 Segal, Joseph J., 917 Semonin, Olivier, 942 Shelton, Sharon, 622, 990

Shimada, Noriaki, 976 Shimada, Shigetoshi, 250 Shomura, Tomoko, 976 Shulman, Michael A., 715 Siber, George R., 47 Silcox, Vella A., 186 Silver, Simon, 852 Sim, Iain S., 421 Simberkoff, Michael S., 103, 816 Slanicka, J., 958 Slim, A., 1084 Smeltzer, Michael P., 409 Smith, Arnold L., 442, 531 Smith, Janice E., 201 Smith, Kendall O., 55, 1026 Smith, Sandra A., 172 Smith, Sharon M., 522 Sokol, Michael S., 1031 Solem, Lynn D., 391 Soll. David R., 810 Sommers, Herbert M., 859 Sosa, Anibal, 771 Speck, William T., 897 Spencer, George R., 995 Spicehandler, Jonathan, 816 Spivack, Jordan G., 176, 284 Starka, Georges, 678 Steele Da Cruz, Fernando, 657 Steigbigel, Roy T., 289 Steimel, Larry A., 704 Stephenson, Jane D., 926 Stevens, David A., 482 Steward, David L., 635 Sticht-Groh, Veronica, 332 Stieglitz, Michaela, 302 Stiller, Robert L., 482 Strand, L., 648 Stratton, Charles W., 334 Streips, Uldis N., 83 Studley, John G. N., 262 Stull. Terrence L., 442 Subramanian, R., 1031 Sud. Inder Jit. 470 Sudan, Arthur W., 32 Suffness, Matthew, 342 Sugata, Toshiaki, 308 Suhara, Yasuji, 611, 617 Sundelof, Jon G., 62 Sutherland, Robert, 369 Suzuki, Yasuo, 250 Swartz, Morton N., 662 Sweet, Richard L., 711 Swenson, Jana M., 186 Sykes, Richard B., 414 Sylvestre, M., 277 Symchowicz, Samson, 1017

Tachibana, A., 935 Tai. M., 728 Takahashi, Ikuko, 775 Takahata, M., 728 Tally, Francis P., 771 Tanida, Seiichi, 735 Taniyasu, Fumiko, 585 Tardif, Ginette, 142 Tarpay, Martha M., 145 Tasker, D. Gordon, 170 Taylor, Floyd B., 839 Tee. Patricia E., 816 Thadepalli, Haragopal, 350 Thompson, Kenneth D., 426 Thompson, Marietta I. B., 488 Thompson, Sumner E., 409 Thomson, Jennifer A., 689 Thonus, Iwan P., 386 Thornsberry, Clyde, 186, 859 Tisone, JoAnn C., 903, 915, 920, 1082 Tjandramaga, T. B., 237 Tomasz, Alexander, 128 Torney, Harry L., 635 Tritton, Thomas R., 176, 284 Troc, Kristine A., 426

Ueda, Takao, 976 Umeda, Isao, 611 Umemura, Koshiro, 976 Une, Tsutomu, 548 Uwaydah, Marwan, 1087

Väisänen, Vuokko, 120 van den Berg, Joke C., 1042 Van Den Broek, P. J., 593 Van der Linden, M. P., 346 Van Etta, Linda L., 844, 878 Van Furth, R., 593 Van Hecken, A., 237 Van Landuvt, Herman W., 535 Vaughn, James L., 527 Vázquez, David, 255, 1070 Verbesselt, R., 237 Verbist, L., 237 Verbist, Ludo, 157 Verbrugh, Henri A., 781 Verma, Mukesh, 541 Veselenak, James M., 810

Wade, James C., 193 Wagner, Jutta, 1061 Wall, Michael, 482 Walton, Leslie, 882 Wannemuehler, Yvonne M., 115 Ward, Thomas T., 289 Washington, J. A., II, 448 Washington, John A., II, 461, 972 Watanakunakorn, Chatrchai, 903, 915, 920, 1082 Weaver, Susanne, 513 Weber, A., 140 Weiner, Ronald M., 527 Welch, David F., 145, 493 Wenk, Markus, 954 Wennersten, Christine, 295 Werkmeister, Ulrich, 302 Westmacott, Donald, 571 Weyant, Robbin S., 272 Whelan, William L., 810 White, James R., 961 Wiernik, Peter H., 193 Williams, Carol C., 499 Wilson, Christopher B., 442 Wilson, W. R., 448 Wilson, Walter R., 972 Winslow, Dean L., 51 Winters, Maureen B., 662 Wise, R., 969 Witte, Joyce L., 906 Wolfson, John S., 662 Wolny, James D., 94 Wood, Bruce A., 32 Worley, Samuel E., 909 Wright, A. J., 448 Wright, Alan J., 972 Wright, Donald N., 493

Yamaguchi, Kazuo, 250 Yano, K., 935 Yano, Kuniichiro, 213 Yasuda, T., 728 Yasui, Victor K., 90 Yee, Robert B., 839 Yeowell, Heather N., 961 Yokoshima, Tetsuyoshi, 976 Yoneda, Masahiko, 735 Yotsuji, A., 728 Yourassowsky, E., 346 Yu, Victor L., 839, 1076

Zabransky, R. J., 628 Zaphyr, M. K., 839 Zaske, Darwin E., 391 Zhang, Zhen-Xi, 421 Zimmer, Barbara L., 148 Zmerilli, S., 1084 Zuravleff, Jeffrey J., 839

SUBJECT INDEX

VOLUME 22

4-Aminopyrazolopyrimidine

1-Acetic acid-2-methyl-5-nitroimidazole
B. fragilis, 165
2-Acetylpyridine thiosemicarbazones
P. falciparum, 981
Acinetobacter calcoaceticus
ceftriaxone, I
E-0702, 181
Acinetobacter sp.
transposon-mediated multiple antibiotic resistance
323
Acriflavin
S. faecium, 295
Acyclovir
combined with vidarabine, 499
herpes simplex virus, 71, 499
Aeromonas hydrophila
β-lactams, 513
2-Alkynoic acids
in vitro cell growth, 805
Allopurinol
4-aminopyrazolopyrimidine, 380
Leishmania spp., 380
T. cruzi, 657
Amikacin
combined with N-formimidoyl thienamycin, 1064
comparative activity
cefmenoxime, 316
dosing methods
granulocytopenic cancer patients, 193
pharmacokinetic, 193
standard, 193
Enterobacteriaceae, 985
gram-negative bacilli, 1064
inactivation by carbenicillin, 376
M. chelonei, 186
M. fortuitum, 186
minimal antibiotic concentrations, 137
renal failure, 376
S. aureus, 1064
subbactericidal concentrations, 137
Aminoglycoside-2"-O-adenylyltransferase
7-hydroxytropolone, 824
Aminoglycosides
diffusion across E. coli outer membrane, 554
minimal antibiotic concentrations, 137
M. melanosporea, 231
M. morganii, 218
M. purpurea, 231
P. alcalifaciens, 218
P. mirabilis, 218
P. rettgeri, 218
P. stuartii, 218
P. vulgaris, 218
resistance during moxalactam therapy, 1037
subbactericidal concentrations, 137
synergism with cephalosporins, 743
Aminomethylphosphonic acid
phosphonopeptides, 571

```
allopurinol, 380
  2'-deoxyriboside derivative, 380
  Leishmania spp., 380
para-Aminosalicylic acid
  M. chelonei, 186
  M. fortuitum, 186
Amoebicides
  Brucea antidysenterica, 342
  bruceantin, 342
Amoscanate
  conversion to mutagenic metabolite
    S. equinus in mice, 707
Amoxicillin
  combined with clavulanic acid, 346, 353, 672
  distribution in animals, 369
  efficacy, 369
  gonococcal opacity variants, 515
  otitis media, 145
  pharmacokinetics, 353
  S. pneumoniae, 145
  urinary tract infection, 346, 672
Amphotericin B
  interactions with 5-fluorocytosine and ketoconazole
    pathogenic fungi, 763
Ampicillin
  B. asaccharolyticus, 698
  B. melaninogenicus, 698
  combined with erythromycin
    L. monocytogenes, 289
  combined with sulbactam
    colorectal surgery patients, 208
  comparative activity
    cefodizime, 715
    cefoperazone, 652
    ceftriaxone, 312
    moxalactam, 312
  effect on rifampin, 522
  gonococcal opacity variants, 515
  group B streptococci, 522
  H. ducreyi, 686, 689
  M. chelonei, 186
  meningitis, 652
  M. fortuitum, 186
  N. gonorrhoeae, 598
  otitis media, 145
  S. faecium, 295
  S. pneumoniae, 145
  S. saprophyticus, 395
  S. typhimurium, 312
  synergy
fosmidomycin, 560
  urethral staphylococci, 395
  urinary tract infection, 1084
 Ampicillin-resistant bacteria
  cefoperazone, 15
```

Anaerobic bacteria cefoperazone, 338 cefotaxime, 338 ceftriaxone, 338 metronidazole, 332, 426 moxalactam, 338 niridazole, 332 Anaerobic infections cancer patients moxalactam, 604 Anion-exchange extraction ceftizoxime, 336 high-pressure liquid chromatography, 336 Antiherpetic compounds synergism BIOLF-62, 1026 phosphonoformate, 1026 Apalcillin high-pressure liquid chromatography, 949 Arildone animals, 475 intravaginal administration to mice, 475 poliovirus in mice, 1022 topical administration to mice, 475 Augmentin high-pressure liquid chromatography, 753 Azlocillin combined with cefotaxime blood isolates, 167 compared with azlocillin-tobramycin, 167 multidrug-resistant isolates, 167 combined with clavulanic acid P. aeruginosa, 266 combined with N-formimidoyl-thienamycin P. aeruginosa, 266 combined with sulbactam P. aeruginosa, 266 combined with tobramycin blood isolates, 167 compared with azlocillin-cefotaxime, 167 multidrug-resistant isolates, 167 compared with mezlocillin, 909 disk diffusion susceptibility test interpretive criteria, 28 quality control, 28 meningitis, 909 streptococci, 930 Azthreonam activity in vitro, 832 gram-negative bacteria, 414 hydrolysis renal dipeptidase, 693 interaction with B-lactamase, 414 pharmacokinetics, 969 tissue penetration, 969

Bacillus subtilis
extracellular protease, 83
nafcillin, 83
Bacitracin
S. faecium, 295
Bacterial infections
ceftriaxone, 103
Bacteroides asaccharolyticus
ampicillin, 698
cephalexin, 698

chloramphenicol, 698 clindamycin, 698 erythromycin, 698 penicillin G, 698 tetracycline, 698 Bacteroides fragilis clindamycin, 771 metronidazole oxidative metabolites, 165 penicillinase, 579 Bacteroides fragilis group **B-lactams** indole production, 628 pirlimycin, 893 Bacteroides melaninogenicus ampicillin, 698 cephalexin, 698 chloramphenicol, 698 clindamycin, 698 erythromycin, 698 penicillin G, 698 tetracycline, 698 Bacteroides spp. cefoperazone, 398 clavulanic acid, 398 B-lactamase production, 398 sulbactam, 398 susceptibility to heavy metals, 889 Bacteroides thetaiotaomicron resistance transfer cefoxitin, 701 clindamycin, 701 erythromycin, 701 lincomycin, 701 tetracycline, 701 Benzylpenicillin N. gonorrhoeae, 598 S. saprophyticus, 395 urethral staphylococci, 395 Biliary tract surgery patients piperacillin, 488 **BIOLF-62** synergism antiherpetic compounds, 1026 phosphonoformate, 1026 Black-pigmented Bacteroides spp. antibiotic susceptibility, 698 Bone cement diffusion guinea pigs cefamandole, 704 penicillin, 704 tobramycin, 704 **BRL 17421** in vitro activity, 157, 535 (E)-5-(2-Bromovinyl)-2'-deoxyuridine herpes simplex virus encephalitis in mice, 421 Bruceantin Entamoeba histolytica, 342

Cancer patients anaerobic infections moxalactam, 604 Candida albicans 5-fluorocytosine, 482, 810

interaction	synergy
phagocytic cells, 593	fosmidomycin, 560
povidone-iodine compounds, 593	urinary tract infection, 32
serotype distribution, 482	Cefmenoxime, 930
Candida spp.	comparative activity
ketoconazole, 917	amikacin, 316
Capreomycin	cefamandole, 316
M. chelonei, 186	cefoperazone, 316
M. fortuitum, 186	cefotaxime, 316
Carbenicillin	cefoxitin, 316
amikacin inactivation, 376	ceftazidime, 316
B. fragilis group	ceftizoxime, 316
indole production, 628	moxalactam, 316
gentamicin inactivation, 376	piperacillin, 316
P. aeruginosa, 255	SM-1652, 721
P. aeruginosa resistance	tobramycin, 316
azlocillin, 266	in vitro activity, 316
clavulanic acid, 266	β-lactamase stability, 316
N-formimidoyl thienamycin, 266	Y. enterocolitica, 140
sulbactam, 266	Cefmetazole
renal failure, 376	comparative activity
synergy	SM-1652, 721
fosmidomycin, 560	M. fortuitum, 1079
Carpetimycins	Cefodizime
hydrolysis	comparative activity
renal dipeptidase, 693	ampicillin, 715
Cathra replicator	cefoperazone, 715
S. aureus, 901	cefotaxime, 715
Cefaclor	cephalothin, 715
H. influenzae type b susceptibility	gentamicin, 715
inoculum size, 923	moxalactam, 715
otitis media, 145	oxacillin, 715
pharmacokinetics, 1061	Cefoperazone
S. faecium, 295	aerobic bacteria, 226
S. pneumoniae, 145	aminoglycoside-resistant gram-negative bacilli, 15
Cefadroxil	ampicillin-resistant bacteria, 15
pharmacokinetics, 1061	anaerobic bacteria, 226, 711
Cefamandole	Bacteroides spp., 398
B. fragilis group	B. fragilis group
indole production, 628	indole production, 628
biliary excretion in rats, 170	combined with clavulanic acid
comparative activity	Bacteroides spp., 398
cefmenoxime, 316	β-lactamase production, 398
diffusion from bone cement	combined with sulbactam
immunological responsiveness of guinea pigs, 704	Bacteroides spp., 398
excretion in pancreatitic dogs, 262	β-lactamase production, 398
gonococcal opacity variants, 515	comparative activity
hepatobility disease, 1087	ampicillin, 652
M. chelonei, 186	cefmenoxime, 316
M. fortuitum, 186	cefodizime, 715
Cefazedone	cefotaxime, 154
comparative activity	cefoxitin, 999
N-formimidoyl thienamycin, 302	ceftriaxone, 338
Cefazolin	chloramphenicol, 652
B. fragilis group	N-formimidoyl thienamycin, 302
indole production, 628	gentamicin, 652
biliary excretion in rats, 170	moxalactam, 154
comparative activity	penicillin, 652
SM-1652, 721	piperacillin, 154
temocillin, 330	SM-1652, 721
compared with cefazolin, 32	disk content, 493
intramuscular administration, 201	disk susceptibility testing, 493
intravenous administration, 201	facultative bacteria, 226
K. pneumoniae, 330, 1042	fungi, 226
penetration into atrial appendage, 201	high-pressure liquid chromatography, 1076
penetration into cortical bone in dogs, 461	β-lactamase production

meningitis, 652 pelvic infections in women, 711 regression analysis, 493 Ceforanide dose regimens vaginal hysterectomies, 643 Cefotaxime, 930 aminoglycoside-resistant gram-negative bacilli, 154 anaerobic bacteria pelvic infections in women, 711 B. fragilis group indole production, 628 combined with azlocillin blood isolates, 167 compared with azlocillin-tobramycin, 167 multidrug-resistant isolates, 167 comparative activity cefmenoxime, 316 cefodizime, 715 cefoperazone, 154 ceftriaxone, 338 moxalactam, 154 piperacillin, 154 SM-1652, 721 distribution serum protein binding, 844 N-formimidoyl thienamycin, 302 K. pneumoniae, 1042 N. gonorrhoeae, 598 Y. enterocolitica, 140 Cefotetan comparative activity cephems, 859 disk diffusion, 859 β-lactamase stability, 859 M. fortuitum, 1079 pharmacokinetics in humans, 935 Cefotiam pharmacokinetics, 958 Cefoxitin anaerobic bacteria pelvic infections in women, 711 B. fragilis group indole production, 628 biliary excretion in rats, 170 B. thetaiotaomicron resistance transfer, 701 comparative activity cefmenoxime, 316 cefoperazone, 999 concentration in gallbladder bile cholecystectomy patients, 709 gonococcal opacity variants, 515 H. ducreyi, 686 M. chelonei, 186 M. fortuitum, 186, 1079 N. gonorrhoeae, 598 pipecolic acid amide, 350 Cefsulodin comparative activity SM-1652, 721 Ceftazidime comparative activity

cefmenoxime, 316

moxalactam, 237

K. pneumoniae, 1042

N. gonorrhoeae, 598

penetration into extravascular fluid, 995 pharmacokinetics, 237 Y. enterocolitica, 140 Ceftizoxime anion-exchange extraction, 336 comparative activity cefmenoxime, 316 distribution, 844, 878 elimination kinetics, 308 high-pressure liquid chromatography, 336 pharmacokinetics in humans, 878 protein binding, 844, 878 Y. enterocolitica, 140 Ceftriaxone anaerobic bacteria, 338 bacterial infections, 103 bactericidal activity, 622 comparative activity cefoperazone, 338 cefotaxime, 338 moxalactam, 338 comparative efficacy ampicillin, 312 moxalactam, 312 Enterobacteriaceae, 1 gram-negative bacilli, 1 N. gonorrhoeae, 598 pharmacokinetics, 622, 816 serious infection, 36 S. typhimurium, 312 Y. enterocolitica, 140 Cefuroxime bacterial meningitis, 990 biliary excretion in rats, 170 comparative activity N-formimidoyl thienamycin, 302 penicillin, 409 gonorrhea, 409 M. chelonei, 186 M. fortuitum, 186 N. gonorrhoeae, 598 pharmacokinetics, 990 Cephalexin B. asaccharolyticus, 698 B. melaninogenicus, 698 S. faecium, 295 S. saprophyticus, 395 synergy fosmidomycin, 560 urethral staphylococci, 395 Cephaloridine biliary excretion in rats, 170 H. ducreyi, 686 hydrolysis renal dipeptidase, 693 Cephalosporin derivatives group B streptococci, 897 Cephalosporins biliary excretion in rats, 170 cefamandole excretion in pancreatitic dogs, 262 penetration into cortical bone in dogs, 461 cephalothin excretion in pancreatitic dogs, 262 E-0702, 181 M. morganii, 218

in

P. alcalifaciens, 218 P. mirabilis, 218 P. rettgeri, 218 P. stuartii. 218 P. vulgaris, 218 pyridinium-2-azo-p-dimethylaniline chromophore, 162 SM-1652 pharmacokinetics in animals, 213 synergism with aminoglycosides, 743 B. fragilis group indole production, 628 comparative activity cefodizime, 715 dose regimens vaginal hysterectomies, 643 excretion in pancreatitic dogs, 262 L. micdadei, 272 M. chelonei, 186 M. fortuitum, 186 S. aureus, 781 S. faecium, 295 streptococci, 930 Cephradine biliary excretion in rats, 170 Chlamydia trachomatis B-lactams, 520 Chloramphenicol anaerobic bacteria pelvic infections in women, 711 B. asaccharolyticus, 698 B. melaninogenicus, 698 comparative activity cefoperazone, 652 M. chelonei, 186 meningitis, 652 M. fortuitum, 186 N. gonorrhoeae, 598 pipecolic acid amide, 350 resistance determinants E. coli, 912 S. faecium, 295 S. pneumoniae, 222 Chloroquine P. falciparum resistance, 981 Cholecystectomy patients cefoxitin concentration in gallbladder bile, 709 Citrobacter freundii E-0702, 181 Clavulanic acid combined with amoxicillin, 346, 353, 672 combined with azlocillin P. aeruginosa, 266 combined with cefoperazone Bacteroides spp., 398 β-lactamase production, 398 combined with mecillinam, 518 distribution in animals, 369 efficacy, 369 pharmacokinetics, 353 urinary tract infection, 346, 672 Clindamycin

anaerobic bacteria

B. asaccharolyticus, 698

pelvic infections in women, 711

B. fragilis, 771 B. melaninogenicus, 698 B. thetaiotamicron resistance transfer, 701 comparative activity pirlimycin, 334 M. chelonei, 186 M. fortuitum, 186 pipecolic acid amide, 350 S. aureus, 334, 781 S. faecium, 295 Clorobiocin analogs, 622 E. coli, 662 Cloxacillin S. aureus, 364 S. faecium, 295 Colorectal surgery patients ampicillin, 208 sulbactam, 208 Coumermycin analogs, 662 E. coli, 662 S. faecium, 295 Cycloserine M. chelonei, 186 M. fortuitum, 186 S. faecium, 295

3-Decynoyl-N-acetylcystamine in vitro cell growth, 805
Deoxycytidine
5-halogenated analog cytotoxicity, 431
2-Deoxy-D-glucose herpes simplex virus replication, 284
Vero cell growth, 284
4'-Deoxy-6'-N-methylamikacin resistance
E. coli mutant plasmid, 78
9,3"-Diacetylmidecamycin metabolites, 976

metabolites, 976
2-(3,4-Dichlorophenoxy)-5-nitrobenzonitrile
antiviral activity, 635
mechanism of action, 635
picornaviruses, 639
Didemnins

Didemnins
antiviral activity
Rift Valley fever virus, 696
RNA virus inhibition, 696
Disk susceptibility testing
cefoperazone, 493
DL-8280
activity in vitro and in vivo, 548
Dnacin B₁
E. coli, 735
mechanism of action, 735

Dosing methods amikacin granulocytopenic cancer patients, 193 pharmacokinetic, 193 standard, 193 Doxycycline

Doxycycline
H. ducreyi, 686
M. chelonei, 186
M. fortuitum, 186
N. gonorrhoeae, 598

E-0702 activity in vitro, 181 Encephalitis herpes simplex virus in mice (E)-5-(2-bromovinyl)-2'-deoxyuridine, 421 Endocarditis gentamicin, 972 penicillin, 972 Entamoeba histolytica Brucea antidysenterica, 342 bruceantin, 342 Enterobacter cloacae ceftriaxone, 1 E-0702, 181 **B-lactams** outer membrane permeation, 585 Enterobacteria B-lactamase-stable penicillins, 198 temocillin, 198 Enterobacteriaceae amikacin, 985 Enterococci N-formimidoyl thienamycin, 448, 1082 gentamicin, 1082 rifampin, 915 tobramycin, 1082 vancomycin, 915 Enviroxime rhinovirus infection, 1004 Enzyme immunoassay compared with radioimmunoassay gentamicin pharmacokinetics, 648 netilmicin, 954 Erythromycin B. asaccharolyticus, 698 B. melaninogenicus, 698 B. thetaiotaomicron resistance transfer, 701 combined with ampicillin L. monocytogenes, 289 combined with gentamicin L. monocytogenes, 289 combined with penicillin L. monocytogenes, 289 gonococcal opacity variants, 515 H. ducreyi, 686 L. micdadei, 272 L. pneumophila, 90 M. chelonei, 186 M. fortuitum, 186 otitis media, 145 S. faecium, 295 S. pneumoniae, 145, 222 S. saprophyticus, 395 streptococci, 930 urethral staphylococci, 395 Escherichia coli ampicillin, 386 4'-deoxy-6'-N-methylamikacin resistance, 78 dnacin B₁, 735 DNA gyrase clorobiocin, 662 coumermycin A1, 662 novobiocin, 662

E-0702, 181

gentamicin, 358

growth clorobiocin, 662 coumermycin A1, 662 novobiocin, 662 **B-lactams** outer membrane permeation, 585 mecillinam, 1070 minocycline, 791 nocardicin A. 1070 outer membrane diffusion fradiomycin, 554 gentamicin, 554 kanamycin, 554 lividomycin, 554 mannosylparomomycin, 554 streptomycin, 554 plasmids resistance conferring to analogs, 912 transfer, 142 pyelonephritogenic strains adhesion, 120 fimbriation, 120 hemagglutination, 120 ultrastructure, 120 sulfadiazine, 120 sulfamethoxazole, 120 sulfathiazole, 120 tetracycline, 791 transport, 791 trimethoprim, 120 Ethambutol in vitro synergy M. avium-intracellulare complex, 148 M. chelonei, 186 M. fortuitum, 186 Ethionamide M. chelonei, 186 M. fortuitum, 186 5-Fluorocytosine C. albicans, 482, 810 interactions with amphotericin B and ketoconazole pathogenic fungi, 763 N-Formimidoyl thienamycin anaerobic bacteria pelvic infections in women, 711 bactericidal activity, 448 combined with amikacin, 1064 combined with azlocillin P. aeruginosa, 266 comparative activity cefazedone, 302 cefoperazone, 302 cefotaxime, 302 cefuroxime, 302 mezlocillin, 302 moxalactam, 302 ticarcillin, 406 tobramycin, 406 derivatives, 62 enterococci, 448, 1082 gram-negative bacilli, 1064 hydrolysis

renal dipeptidase, 693

M. fortuitum, 1079

N. gonorrhoeae, 926

N. meningitidis, 926 P. aeruginosa pneumonia, 406 S. aureus, 906, 1064 S. faecium, 295 synergism gentamicin, 1082 tobramycin, 1082 Fortimicin M. chelonei, 186 M. fortuitum, 186 Fosmidomycin synergy ampicillin, 560 carbenicillin, 560 cefazolin, 560 cephalexin, 560 gentamicin, 560 ticarcillin, 560 trimethoprim, 560 Fradiomycin diffusion across E. coli outer membrane, 554 structure-activity relationship, 1067 Gentamicin combined with erythromycin L. monocytogenes, 289 combined with penicillin endocarditis, 972 comparative activity cefodizime, 715 cefoperazone, 652 tobramycin, 791 diffusion across E. coli outer membrane, 554 E. coli, 358 enterococci, 1082 humans, 791 inactivation by carbenicillin, 376 L. micdadei, 272 M. chelonei, 186 meningitis, 652 M. fortuitum, 186 minimal antibiotic concentrations, 137 M. melanosporea, 231 M. purpurea, 231 nephrotoxicity in rats, 508 P. aeruginosa, 358 P. aeruginosa resistance gene, 525 pharmacokinetics, 1017 enzyme immunoassay, 648 radioimmunoassay, 648 renal failure, 376 S. faecium, 295 synergism N-Formimidoyl thienamycin, 1082 fosmidomycin, 560 vancomycin, 903 subbactericidal concentrations, 137 Gonococcal opacity variants amoxicillin, 515 ampicillin, 515 cefamandole, 515 cefoxitin, 515 erythromycin, 515 moxalactam, 515

tobramycin, 515 Gonorrhea cefuroxime, 409 penicillin, 409 Gramicidin S spore outgrowth, 785 transcription, 785 transport, 785 Gram-negative bacilli amikacin, 1064 aminoglycoside resistance cefoperazone, 154 cefotaxime, 154 moxalactam, 154 piperacillin, 154 N-formimidoyl thienamycin, 1064 Gram-negative bacteria aminoglycosides, 23 **B-lactamase** azthreonam, 414 monobactams, 414 β-lactams, 23 norfloxacin, 23 piperacillin, 10 trimethoprim, 23 Gram-positive bacteria aminoglycosides, 23 B-lactams, 23 norfloxacin, 23 piperacillin, 10 trimethoprim, 23 Group A Baculoviridae rifampin, 527 Group A streptococci penicillin-resistant mutants, 128 penicillin-tolerant mutants, 128 Group B streptococci ampicillin, 522 cephalosporin derivatives, 897 β-lactams, 897 penicillin derivatives, 897 rifampin, 522

penicillin, 515

Haemophilus ducreyi ampicillin resistance plasmid coding, 689 β-lactamase production ampicillin, 686 cefoxitin, 686 cephaloridine, 686 doxycycline, 686 erythromycin, 686 minocycline, 686 penicillin G, 686 rifampin, 686 sulfamethoxazole, 686 sulfisoxazole, 686 tetracycline, 686 trimethoprim, 686 Haemophilus influenzae cefaclor susceptibility inoculum size, 923 mutation frequency to rifampin resistance, 531 Heavy metals Bacteroides spp. resistance, 889

Hepatobility disease cefamandole, 1087 Herpes simplex virus acyclovir, 71, 499 encephalitis in mice (E)-5-(2-bromovinyl)-2'-deoxyuridine, 421 9-[[2-hydroxy-1-(hydroxymethyl)ethoxy]methyl]guanine, 55 replication 2-deoxy-p-glucose, 284 methyl daunosamine, 176 tromantadine, 1031 vidarabine, 499 High-pressure liquid chromatography anion-exchange extraction, 336 apalcillin, 949 augmentin, 753 cefoperazone, 1076

Sch 29482, 848 HR-221

see cefodizime

ceftizoxime, 336

1-(2-Hydroxyethyl)-2-hydroxymethyl-5-nitroimida-

B. fragilis, 165

9-[[2-Hydroxy-1-(hydroxymethyl)ethoxy]methyl]guanine

herpes simplex virus, 55 in vitro activity, 55

4-Hydroxypyrazolo[3,4-d]pyrimidine

biological activity, 657 metabolism, 657 T. cruzi, 657

7-Hydroxytropolone

aminoglycoside-2"-O-adenylyltransferase, 824

Imidazoles

ketoconazole, 470 miconazole, 470 Indole production B. fragilis group B-lactams, 628

Isoniazid

in vitro synergy

M. avium-intracellulare complex, 148

M. chelonei, 186 M. fortuitum, 186

Josamycin

M. chelonei, 186 M. fortuitum, 186

Kanamycin

diffusion across E. coli outer membrane, 554 in vitro synergy M. avium-intracellulare complex, 148 M. chelonei, 186

M. fortuitum, 186

Ketoconazole

Candida spp., 917

interactions with amphotericin B and 5-fluorocyto-

pathogenic fungi, 763 P. falciparum, 917

pharmacokinetics, 43 S. aureus, 470 Klebsiella pneumoniae cefazolin, 330, 1042 cefotaxime, 1042 ceftazidime, 1042 E-0702, 181 temocillin, 330

B-Lactamase cephalosporin, 564 gram-negative bacteria azthreonam, 414 monobactams, 414 penicillin, 564 **B-Lactamase** production

Bacteroides spp. cefoperazone, 398 clavulanic acid, 398 sulbactam, 398

inhibition

P. aeruginosa, 266 P. aeruginosa azlocillin, 266

clavulanic acid, 266

N-formimidoyl thienamycin, 266 sulbactam, 266

B-Lactamase testing pyridinium-2-azo-p-dimethylaniline chromophore,

B-Lactam derivatives comparative activities, 302

B-Lactams

A. hydrophila, 513

aminoglycoside-resistant gram-negative bacilli, 154 anaerobic bacteria

pelvic infections in women, 711

B. fragilis group

indole production, 628 C. trachomatis, 520

diffusion, 775

group B streptococci, 897

hydrolysis

renal dipeptidase, 693

outer membrane permeation

E. cloacae, 585 E. coli. 585

P. mirabilis, 585

P. aeruginosa

resistance gene mapping, 242 permeation, 942

resistance

during moxalactam therapy, 1037 S. aureus, 172

S. faecium resistance, 295 temocillin, 453, 535

Legionella micdadei

cephalothin, 272 erythromycin, 272

gentamicin, 272 penicillin G, 272

rifampin, 272

Legionella pneumophila

erythromycin, 90

mycinamycin, 90

rosaramicin, 90 Mezlocillin tylosin, 90 comparative activity Leishmania spp. N-formimidoyl thienamycin, 302 allopurinol, 380 Miconazole 4-aminopyrazolopyrimidine, 380 S. aureus, 470 Lincomycin R thetaiotaomicron metronidazole, 332 resistance transfer, 701 niridazole, 332 Listeria monocytogenes ceftriaxone. 1 erythromycin combinations ampicillin, 289 gentamicin, 231 gentamicin, 289 penicillin, 289 gentamicin, 231 sulfamethoxazole Minocycline alone and with trimethoprim, 51 comparative activity tetracycline, 791 tetracycline resistance L-forms, 678 trimethoprim H. ducreyi, 686 alone and with sulfamethoxazole, 51 M. chelonei, 186 Lividomycin M. fortuitum, 186 diffusion across E. coli outer membrane, 554 N. gonorrhoeae, 598 MK0787 M12325 Monobactams antiviral activity, 250 azthreonam, 832 Mannosylparomomycin diffusion across E. coli outer membrane, 554 Morganella morganii antiviral activity, 635 mechanism of action, 635 cephalosporins, 218 picornaviruses, 639 Moxalactam Mecillinam combinations anaerobic bacteria clavulanic acid, 518 sulbactam, 518 E. coli, 1070 B. fragilis group S. faecium, 295 Meningitis comparative activity azlocillin, 909 cefazolin, 32 cefoperazone comparative activity cefmenoxime, 316 ampicillin, 652 cefodizime, 715 chloramphenicol, 652 cefoperazone, 154 gentamicin, 652 cefotaxime, 154 penicillin, 652 ceftriaxone, 338 ceftriaxone bactericidal activity in cerebrospinal fluid, 622 piperacillin, 154 pharmacokinetics, 622 SM-1652, 721 mezlocillin, 909 ampicillin, 312 Mercury resistance hospitals, 852 ceftriaxone, 312 Methicillin Cathra replicator, 901 S. aureus, 364 Methyl daunosamine M. fortuitum, 1079 herpes simplex virus replication, 176 P. aeruginosa, 1037 Metronidazole anaerobic bacteria, 332, 426 comparative activity niridazole, 332 streptococci, 930 microaerophilic bacteria, 332 M. chelonei, 186 M. fortuitum, 186 oxidation products, 426 Mycinamycin oxidative metabolites L. pneumophila, 90 B. fragilis, 165

pelvic infections in women, 711

Microaerophilic bacteria Microdilution techniques Titertek Multiscan, 151 Micromonospora melanosporea Micromonospora purpurea E. coli transport, 791 see N-formimidovl thienamycin gram-negative bacteria, 414 β-lactamase interaction, 414 aminoglycosides, 218 aminoglycoside-resistant gram-negative bacilli, 154 pelvic infections in women, 711 anaerobic infections in cancer patients, 604 indole production, 628 N-formimidoyl thienamycin, 302 comparative efficacy gonococcal opacity variants, 515 intramuscular administration, 201 intravenous administration, 201 penetration into atrial appendage, 201 pharmacokinetics, 47, 94 compared with ceftazidime, 237 S. typhimurium, 312 urinary tract infection, 32 Y. enterocolitica, 140 Mycobacterium avium-intracellulare complex ethambutol, 148

SUBJECT INDEX

isoniazid, 148 kanamycin, 148 rifampin, 148 streptomycin, 148 Mycobacterium chelonei susceptibility agar dilution, 186 broth microdilution, 186 Mycobacterium fortuitum cefmetazole, 1079 cefotetan, 1079 cefoxitin, 1079 N-formimidoyl thienamycin, 1079 moxalactam, 1079 susceptibility agar dilution, 186 broth microdilution, 186

Nafcillin

xiv

antagonism with rifampin S. aureus, 920

B. subtilis tolerance, 83

Nalidixic acid

P. aeruginosa resistance gene mapping, 242

S. saprophyticus, 395 urethral staphyloccoci, 395

Neisseria gonorrhoeae cross-resistance, 598

E-0702, 181

N-formimidovl thienamycin, 926 susceptibility in vitro, 598

Neisseria meningitidis

N-formimidoyl thienamycin, 926

Netilmicin

enzyme immunoassay, 954

M. chelonei, 186

M. fortuitum, 186

minimal antibiotic concentrations, 137

pharmacokinetics, 1017

serum assay, 1058

subbactericidal concentrations, 137

Niridazole

anaerobic bacteria, 332

comparative activity

metronidazole, 332

microaerophilic bacteria, 332

Nitrofurantoin

S. faecium, 295

S. saprophyticus, 395

urethral staphylococci, 395

4-Nitro-4'-isothiocyanodiphenylamine

conversion to mutagenic metabolite

S. equinus in mice, 707

Nocardicin A

E. coli, 1070

Norfloxacin

comparative activity

aminoglycosides, 23

B-lactams, 23

trimethoprim, 23

gram-negative bacteria, 23 gram-positive bacteria, 23

Novobiocin

analogs, 662

E. coli, 662

S. faecium, 295

S. saprophyticus, 395

urethral staphylococci, 395 Nuclear polyhedrosis virus

rifampin, 527

Otitis media

S. pneumoniae

amoxicillin, 145

ampicillin, 145 cefaclor, 145

erythromycin, 145

penicillin G. 145

sulfamethoxazole, 145

sulfisoxazole, 145

trimethoprim, 145

Oxacillin

antagonism with rifampin

S. aureus, 920 comparative activity

cefodizime, 715

Oxazine derivatives

DL-8280, 548 Oxolinic acid

S. faecium, 295

P. aeruginosa

moxalactam, 1037

Pancreatitis

cefamandole

excretion in dogs, 262

cephalothin

excretion in dogs, 262

Penicillin

combined with erythromycin

L. monocytogenes, 289

combined with gentamicin

endocarditis, 972

comparative activity

cefoperazone, 652 cefuroxime, 409

gonococcal opacity variants, 515 gonorrhea, 409

B-lactamase stable

temocillin, 157

meningitis, 652

resistance

group A streptococci, 128

S. aureus, 781

S. pneumoniae, 222

streptococci tolerance, 128, 1073

Penicillinase

B. fragilis, 579

Penicillin-binding proteins

S. aureus, 172

Penicillin derivatives

group B streptococci, 897

Penicillin G

anaerobic bacteria

pelvic infections in women, 711

B. asaccharolyticus, 698

B. melaninogenicus, 698 diffusion from bone cement

immunological responsiveness of guinea pigs, 704

H. ducreyi, 686

tolerability, 10

hydrolysis Pirlimycin renal dipeptidase, 693 L. micdadei, 272 M. chelonei, 186 M. fortuitum, 186 otitis media, 145 S. faecium, 295 S. pneumoniae, 145 streptococci, 930 Penicillins enterobacteria, 198 β-lactamase stability, 198 P. aeruginosa, 198 temocillin, 198 Phagocytic cells interaction C. albicans, 593 povidone-iodine compounds, 593 **Pharmacokinetics** amoxicillin, 353 azthreonam, 969 cefaclor, 1061 cefadroxil, 1061 cefotetan, 935 cefotiam, 958 ceftazidime, 237 ceftizoxime, 878 ceftriaxone, 816 cefuroxime, 990 clavulanic acid, 353 enzyme immunoassay, 648 gentamicin, 648, 1017 ketoconazole, 43 moxalactam, 47, 94, 237 netilmicin, 1017 piperacillin in children, 442 radioimmunoassay, 648 SM-1652 animals, 213 tobramycin, 1017 vancomycin, 391 Phosphonoformate synergism antiherpetic compounds, 1026 BIOLF-62, 1026 Phosphonopeptides aminomethylphosphonic acid-based, 571 **Picornaviruses** 2-(3,4-dichlorophenoxy)-5-nitrobenzonitrile, 639 MDL-860, 639 Ro 09-0179, 611 Piperacillin, 930 aminoglycoside-resistant gram-negative bacilli, 154 anaerobic bacteria pelvic infections in women, 711 biliary track surgery patients, 488 comparative activity cefmenoxime, 316 cefoperazone, 154 cefotaxime, 154 moxalactam, 154 gram-negative bacteria, 10 gram-positive bacteria, 10 pharmocokinetics in children, 442 therapeutic efficacy, 10

B. fragilis group, 893 comparative activity clindamycin, 334 S. aureus, 334 Plasmodium falciparum 2-acetylpyridine thiosemicarbazones, 981 ketoconazole, 917 Pneumonia N-formimidoyl thienamycin, 406 P. aeruginosa, 406 ticarcillin, 406 tobramycin, 406 **Poliovirus** arildone in mice, 1022 Polymyxin P. aeruginosa, 1012 Porin proteins role in β-lactam permeation, 942 Povidone-iodine compounds interaction C. albicans, 593 phagocytic cells, 593 Proteus inconstans E-0702, 181 Proteus mirabilis aminoglycosides, 218 cephalosporins, 218 E-0702, 181 **B-lactams** outer membrane permeation, 585 Proteus morganii E-0702, 181 Proteus rettgeri E-0702, 181 Proteus vulgaris aminoglycosides, 218 cephalosporins, 218 E-0702, 181 Providencia alcalifaciens aminoglycosides, 218 cephalosporins, 218 Providencia rettgeri aminoglycosides, 218 cephalosporins, 218 Providencia stuartii aminoglycosides, 218 cephalosporins, 218 Pseudomonas aeruginosa aminoglycoside detection, 525 carbenicillin, 255 carbenicillin resistance azlocillin, 266 clavulanic acid, 266 N-formimidoyl thienamycin, 266 sulbactam, 266 ceftriaxone, 1 E-0702, 181 production of β-lactamase azlocillin, 266 clavulanic acid, 266 N-formimidoyl thienamycin, 266 sulbactam, 266 β-lactamase-stable penicillins, 198 β-lactams, 242

SUBJECT INDEX

xvi

nalidixic acid, 242 plasmids E. coli, 358 gentamicin, 358 transfer, 142 polymyxin, 1012 resistance gene cloning, 525 mapping, 242 temocillin, 198 ticarcillin, 839 tobramycin, 839 Pseudomonas aeruginosa pneumonia N-formimidoyl thienamycin, 406 ticarcillin, 406 tobramycin, 406 Pseudomonas cepacia E-0702, 181 Pseudomonas fluorescens T. cruzi, 1051 Pseudomonas maltophilia E-0702, 181 **B-lactamase** cephalosporin, 564 penicillin, 564 Pyridinium-2-azo-p-dimethylaniline chromophore

B-lactamase testing, 162 Radiommunoassay compared with enzyme immunoassay gentamicin pharmacokinetics, 648 Renal dipeptidase hydrolysis azthreonam, 693 carpetimycins A and B, 693 cephaloridine, 693 N-formimidoyl thienamycin, 693 penicillin G, 693 Sch 29482, 693 Renal dysfunction ceftizoxime, 308 Resistance gene mapping

B-lactams, 242 nalidixic acid, 242 P. aeruginosa, 242 Resistance patterns

S. pneumoniae, 222 Rhinoviruses

enviroxime, 1004 inactivation by Ro 09-0410, 617

Ribavirin lymphocyte inhibition, 108

Ribosomal resistance aminoglycosides, 231 gentamicin, 231 M. melanosporea, 231

M. purpurea, 231 Rifampin

ampicillin, effect on, 522 antagonism

nafcillin, 920 oxacillin, 920

combined with vancomycin enterococci, 915 group A Baculoviridae, 527 group B streptococci, 522

H. ducreyi, 686

H. influenzae mutation frequency, 531

in vitro synergy

M. avium-intracellulare complex, 148

L. micdadei, 272 M. chelonei, 186 M. fortuitum, 186

Rift Valley fever virus

didemnins, 696 RNA viruses

didemnins, 696 Ro 09-0179

antiviral activity, 611

Ro 09-0410

rhinovirus inactivation, 617

Ro 13-9904

serious infection, 36

Rosaramicin

L. pneumophila, 90 M. chelonei, 186

M. fortuitum, 186 N. gonorrhoeae, 598

Rosoxacin

N. gonorrhoeae, 598

R-plasmids

transfer from S. faecalis to S. aureus, 204

Salmonella spp.

E-0702, 181

Salmonella typhimurium

ampicillin, 312 ceftriaxone, 312 moxalactam, 312

thiolutin resistance, 541

Sch 29482

high-pressure liquid chromatography, 848

hydrolysis

renal dipeptidase, 693

Serratia marcescens

E-0702, 181

Serum protein binding

antibiotic distribution, 844

ceftizoxime, 878

Sisomicin

M. chelonei, 186

M. fortuitum, 186

SM-1652

comparative activity

cefazolin, 721

cefmenoxime, 721

cefmetazole, 721 cefoperazone, 721

cefotaxime, 721

cefsulodin, 721

moxalactam, 721

pharmacokinetics in animals, 213

Sodium 5-aminosulfonyl-2,4-dichlorobenzoate

antiviral activity, 250 Spectinomycin

N. gonorrhoeae, 598

SQ 26,776

Y. enterocolitica, 140

Staphylococci

antigonococcal activity characterization, 277

erythromycin, 145

production, 277 penicillin G. 145 purification, 277 sulfamethoxazole, 145 sulfisoxazole, 145 Staphylococcus aureus trimethoprim, 145 amikacin, 1064 penicillin, 222 Cathra replicator, 901 ceftriaxone, 1 resistance patterns, 222 cephalothin, 781 serotype distribution, 222 clindamycin, 334, 781 tetracycline, 222 cloxacillin, 364 Streptomycin E-0702, 181 diffusion across E. coli outer membrane, 554 N-formimidoyl thienamycin, 906, 1064 in vitro synergy ketoconazole, 470 M. avium-intracellulare complex, 148 Streptonigrin **B-lactam-resistance** penicillin-binding proteins, 172 bacterial mechanism, 961 Sulbactam methicillin, 364 combined with ampicillin miconazole, 470 nafcillin, 920 colorectal surgery patients, 208 oxacillin, 920 combined with azlocillin P. aeruginosa, 266 penicillin, 781 combined with cefoperazone pirlimycin, 334 Bacteroides spp., 398 rifampin, 920 R-plasmid transfer from S. faecalis, 204 B-lactamase production, 398 combined with mecillinam, 518 vancomycin synergism gentamicin, 903 Sulfadiazine tobramycin, 903 E. coli adhesion, 120 Staphylococcus epidermidis fimbriation, 120 E-0702, 181 hemagglutination, 120 Staphylococcus saprophyticus ultrastructure, 120 ampicillin, 395 Sulfadiazole benzylpenicillin G, 395 cephalexin, 395 E. coli adhesion, 120 erythromycin, 395 nalidixic acid. 395 fimbriation, 120 hemagglutination, 120 nitrofurantoin, 395 novobiocin, 395 ultrastructure, 120 sulfamethoxazole, 395 Sulfamethoxazole combined with trimethoprim, 51, 186, 395, 686 trimethoprim, 395 Streptococci E. coli azlocillin, 930 adhesion, 120 cefmenoxime, 930 fimbriation, 120 cefotaxime, 930 hemagglutination, 120 ultrastructure, 120 cephalothin, 930 erythromycin, 930 H. ducreyi, 686 moxalactam, 930 in vitro activity, 51 penicillin G, 930 L. monocytogenes, 51 penicillin tolerance, 1073 M. chelonei, 186 piperacillin, 930 M. fortuitum, 186 vancomycin, 930 otitis media, 145 Streptococcus equinus S. pneumoniae, 145 S. saprophyticus, 395 amoscanate conversion to mutagenic metabolite mice, 707 urethral staphylococci, 395 Sulfisoxazole Streptococcus faecalis H. ducreyi, 686 R-plasmid transfer to S. aureus, 204 otitis media, 145 Streptococcus faecium S. pneumoniae, 145 β-lactams, 295 Susceptibility testing Streptococcus mutans azlocillin, 28 iodine, 115 pH values, 115 aminoglycosides and cephalosporins, 743 sodium fluoride, 115 Streptococcus pneumoniae interaction index, 743 killing curve method, 743 chloramphenicol, 222 erythromycin, 222 otitis media amoxicillin, 145 T-1982 ampicillin, 145 comparative activity cefazolin, 728 cefaclor, 145

cefmetazole, 728

cefoperazone, 728 cefoxitin, 728

gram-negative bacteria, 728

gram-positive bacteria, 728 Temocillin

antibacterial activity, 453

comparative activity

cefazolin, 330

cefotaxime, 535 ceftazidime, 535

cephalothin, 535 moxalactam, 535

piperacillin, 535 enterobacteria, 198

in vitro activity, 157, 198, 535

K. pneumoniae, 330 B-lactamase stability, 453

P. aeruginosa, 198

Tetracycline

B. asaccharolyticus, 698

B. melaninogenicus, 698 B. thetaiotaomicron

resistance transfer, 701

comparative activity minocycline, 791

E. coli transport, 791

H. ducreyi, 686

L. monocytogenes resistance

L-forms, 678 M. chelonei, 186

M. fortuitum, 186 N. gonorrhoeae, 598

S. pneumoniae, 222

Thiamphenicol

M. chelonei, 186 M. fortuitum, 186

Thienamycin

metabolism by dehydropeptidase-1, 62

Thiolutin

S. typhimurium resistance, 541

Ticarcillin

combined with tobramycin, 839

comparative activity

N-formimidoyl thienamycin, 406

tobramycin, 406

P. aeruginosa, 839

P. aeruginosa pneumonia, 406

synergy

fosmidomycin, 560

Titertek Multiscan

minimal inhibitory concentration endpoints, 151

Tobramycin

combined with azlocillin

blood isolates, 167

comparison with azlocillin-cefotaxime, 167

multidrug-resistant isolates, 167

combined with ticarcillin, 839

comparative activity

cefmenoxime, 316

N-formimidoyl thienamycin, 406

gentamicin, 791

ticarcillin, 406

diffusion from bone cement

immunological responsiveness of guinea pigs, 704

enterococci, 1082

gonococcal opacity variants, 515

humans, 791

M. chelonei, 186

M. fortuitum, 186

minimal antibiotic concentrations, 137

P. aeruginosa, 839

P. aeruginosa pneumonia, 406

pharmacokinetics, 1017

S. faecium, 295

subbactericidal concentrations, 137

synergism

N-Formimidoyl thienamycin, 1082

vancomycin, 903

Trimethoprim

combined with sulfamethoxazole, 51, 186

H. ducreyi, 686

S. saprophyticus, 395

urethral staphylococci, 395

E. coli

adhesion, 120

fimbriation, 120

hemagglutination, 120

ultrastructure, 120

H. ducrevi, 686

in vitro activity, 51

L. monocytogenes, 51

M. chelonei, 186 M. fortuitum, 186

otitis media, 145

resistance

dihydrofolate reductase genes, 882

S. pneumoniae, 145

synergy

fosmidomycin, 560

Tromantadine

herpes simplex virus replication, 1031

Trypanosoma brucei

tunicamycin, 1008

Trvpanosoma cruzi

bloodstream form

allopurinol, 657

intracellular form allopurinol, 657

P. fluorescens, 1051

Tunicamycin

T. brucei, 1008

Tylosin

L. pneumophila, 90

Tyrocidines

spore outgrowth, 785

transcription, 785

transport, 785

U-57930E

see pirlimycin

Urethral staphylococci

ampicillin, 395

benzylpenicillin G, 395 cephalexin, 395

erythromycin, 395

nalidixic acid, 395

nitrofurantoin, 395

novobiocin, 395 sulfamethoxazole, 395

trimethoprim, 395

Urinary tract infection amoxicillin, 346, 672

clavulanic acid, 346, 672

Vaginal hysterectomies comparative dose regimens ceforanide, 643 cephalothin, 643
Vancomycin combined with rifampin enterococci, 915 dosage recommendations, 391 M. chelonei, 186 M. fortuitum, 186 pharmacokinetics, 391 S. faecium, 295 streptococci, 930 synergism gentamicin, 903 tobramycin, 903

Vidarabine combined with acyclovir, 499 herpes simplex virus, 499

Yersinia enterocolitica cefmenoxime, 140 cefotaxime, 140 ceftizokime, 140 ceftizoxime, 140 moxalactam, 140 SQ 26,776, 140 YM09330 see cefotetan